

Appl. No. 10/083,093
Response to Office Action dated March 9, 2007
Page 3 of 9

(i) creates a self locking relationship to lock the insertion member in one of a plurality of desired angles relative to the prosthesis so that the insertion member and the prosthesis form a rigid physical construct at each of the angles; and

(ii) forms a substantially fluid tight seal between the head and the opening, thereby preventing the escape of polyethylene wear particles to the outside of the prosthetic component; and wherein

- a) the head does not contact the lower portion of the opening;
- b) the head does not protrude beyond the first surface; and
- c) every opening is adapted to receive at least an aperture cover, a screw, and a peg.

48. (New) The implantable prosthesis of claim 47, wherein the lower portion of the opening is a curved surface, a rounded surface, or a spherical surface.

49. (New) The implantable prosthesis of claim 47, wherein the head of the insertion member comprises an outer edge that is spherical, near-spherical, toroidal, elliptical, global, slightly curved, or rounded.

50. (New) The implantable prosthesis of claim 47, wherein the prosthesis comprises a hip replacement system and wherein the first and second surfaces are surfaces of an acetabular cup.

Appl. No. 10/083,093
Response to Office Action dated March 9, 2007
Page 4 of 9

51. (New) The implantable prosthesis of claim 47, wherein the lower portion comprises a rounded section beginning at a narrow end of the frustoconical taper section and having a smaller diameter than the frustoconical taper section.

52. (New) The implantable prosthesis of claim 47, wherein, when the insertion member is inserted into the opening, there is a gap between the second surface of the prosthetic component and the insertion member head.

53. (New) The implantable prosthesis of claim 47, wherein at least one of the at least two openings comprises a chamfer edge, an upper portion comprising a conical taper, a lower portion comprising a rounded section, and a cylindrical portion, wherein

- (i) the chamfer edge is formed where the opening meets the first surface;
- (ii) the chamfer edge meets the upper portion and wherein the conical taper of the upper portion extends through a substantial portion of the opening,
- (iii) the upper portion meets the lower portion comprising a rounded section at a narrow end of the conical taper; and
- (iv) the lower portion ends at the second surface at cylindrical portion.

54. (New) The implantable prosthesis of claim 53, wherein the rounded section has a smaller diameter than the conical taper.